1	Attorney Docket No. 82828
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3	NON-CONTACT WAVEFORM MONITOR
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5	ABSTRACT OF THE DISCLOSURE
6	A non-contact method and apparatus for continuously
7	monitoring a physiological event in a human or animal, such as
8	blood pressure, which involves utilizing a laser-based
9	interferometer system to produce a waveform that is
10	representative of continuous blood pressure in a subject. The
11	invention may preferably utilize a laser Doppler vibrometer which
12	is oriented to produce a laser beam directed toward the subject
13	substantially perpendicular to a skin surface of the subject
14	wherein the skin surface is moveable in response to blood
15	pressure. The vibrometer is sensitive to motion of the skin
16	surface in a direction parallel to the laser beam and produces a
17	signal representative of this motion. By plotting the velocity
18	of the skin surface movement in the direction parallel to the
19	laser beam with respect to time, a waveform is produced that has
20	been found to be representative of the blood pressure waveform
21	and highly defined to thereby permit accurate timing analysis
22	thereof relating to cardiac cycles.